



User's Manual

VF-289

VHF Wireless Microphone System

Guangzhou Aoyuan Electronics Factory

Introduction:

For many reasons, low frequency among others, traditional wireless microphone systems can be easily interfered, especially by such equipment as CD, VCD and LD. To solve this problem, Takstar designed the professional TS, WM series wireless microphones, which adopt a series of measures to improve its functions, advance frequency using multilevel high frequency and mid frequency narrowband filter, multiple noise detect and control. They feature also the special functions of avoiding interference from the outside.

VF-289 wireless microphone is suitable for any public speeches and karaoke performances. It features long distance (50-100m), high fidelity tone quality and wide frequency response range (40-18000Hz) with low distortions, which will assure you a pleasant using everywhere at any moment.

Features :

Adopting VHF-H frequency band for obviating interference Frequency.

Using multilevel high frequency and mid frequency narrowband Filter for fully eliminating signal disturbing

Low-voltage power supply design keeps it working even at 4V

Unique ALC circuitry for avoiding distortion from high volume

Low voltage indication available for handheld microphone

Special circuitry for eliminating noise shock wave from switch

Quartz crystal oscillator circuitry for extremely stable frequency

Adopting audio companding technique for reducing the noise and Increasing the dynamic range

Function of effectively reducing the howling

Independent unbalanced and mixed outputs for conveniently connecting sound mixer and Karaoke amplifier

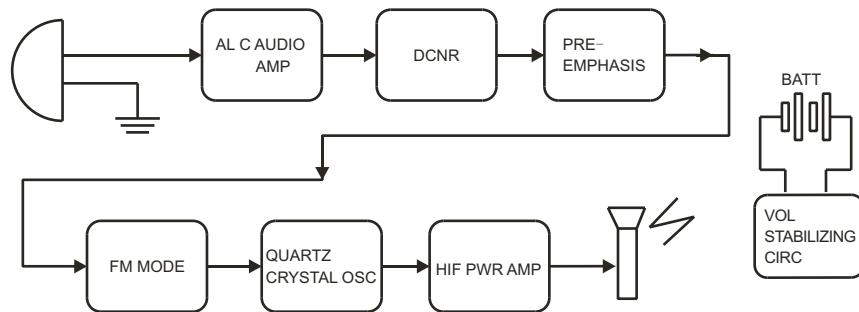
Rugged and durable handheld microphone design

Operational Instructions:

Microphone:

1. Handheld Microphone: Rotate the battery cover anti-clockwise, and put a 9V battery into the battery compartment with proper polarities, then rotate the battery cover clockwise till it is tight enough.
Belt-pack Transmitter: Open the battery cover by pressing the "OPEN" sign, then put in the batteries. (Caution: the battery must be in Correct Polarities)
2. Push the microphone power switch to the "ON" position. If the power indicator doesn't light, please check if the battery is full enough or the battery polarities are correct.
3. If the mute function is needed, please push the switch to the middle position, then the microphone will be in mute state and the unit is still working.
4. Plug the tie-clip or headset microphone into the "MIC" socket of the belt pack transmitter.
5. When not using the microphone for a long time, please take out the batteries from the microphone base in order to avoid damaging the unit By chemical leakage from the battery.

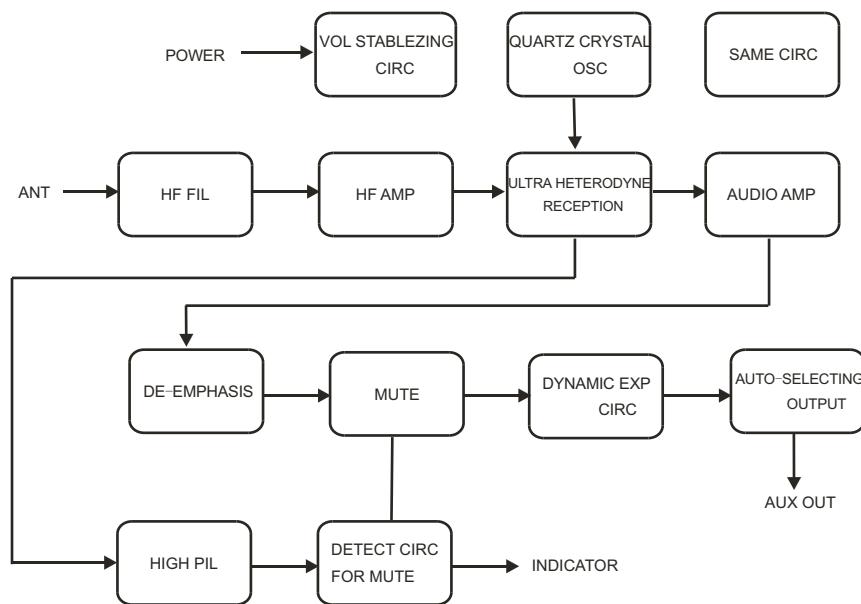
Working Principle of Microphone:



The System Includes a Receiver Part:

1. Plug the connector of the power adaptor into the socket of power Source, please make sure the power voltage is AC 120V/50~60Hz.
2. Turn on the power switch, the power indicator lights.
3. Pull out the antenna A&B and make them perpendicular to the unit.
4. 2-Audio Output Connection (auto-selecting): If the mix output is needed, only use 1 audio output cable and connect it with any output socket. If independent output is required, please connect another cable.
5. The “RF” indicator of receiver will light when turning on the transmitter. Please swivel the volume knob to adjust the sound.
6. When not using the receiver for a long time, please disconnect it from the power adaptor.

Working Principle of Receiver:



CAUTION of the Receiver:

1. The receiver should be more than 1m above the floor and more than 1m away from the walls.
2. For better effect, please do not put the microphone in the dead angle place while using.
3. Please be careful while operating the system, any impacts, plumps or misuse can cause malfunction.
4. Do not expose the system directly to sun and rain, and keep it away from magnetic field.
5. Any change or modification on the construction of this device, which are not expressly approved by the party responsible for compliance, could cause a malfunction and void the user's authority to operate the equipment.
6. Do not disassemble the unit by yourself, as there may be high voltage inside.
7. Specifications are subject to change without prior notice.

Troubleshooting:

Phenomena	Cause
The receiver is returned on, but the indicator does not light.	Check if the adaptor is well connected, and if the socket is broken.
The “RF” indicator lights while speaking, but no output signal is available.	Check if the power switch is in the middle position, or the volume control is on the minimum position.
When the using distance gets shorter, the signal becomes unstable.	<ol style="list-style-type: none"> 1. Put out the antenna. 2. Check if the batteries are running off and replace them with the fresh ones if needed. 3. Check if the receiver is put in inappropriate position, i. e. on the ground or at the corner of the wall or in a strong electromagnetic field, please change its position.
Sound quality gets worse.	<ol style="list-style-type: none"> 1. The battery of the microphone is running off, please replace it with fresh one. 2. Check if there is same frequency signal problem, do not use two units with same frequency at the same time in the same area. (The distance must be at least 100m between two units with same frequency.)
<p>Remarks: If there are any other troubles or problems observed, please do not open and repair it by yourselves. Please, first contact our distributors or directly come back to us. We will try our best to provide you with professional and efficient service.</p>	

Specification:

Mute Control: Noise Lock
Frequency Deviation: $\pm 18\text{kHz}$
Frequency Response: 80Hz–15kHz
Frequency Stability: $\pm 0.005\%$
S/N Ratio: $> 70\text{dB}$
Total Harmonic Distortion: 0.5 % (at 1kHz)
Number of Channels: 2 Channels
Receiving Sensitivity: -80dBm
Operating Range: 50m in Open Area
Resonance Interference Rate $\geq 50\text{dB}$
False Image Interference Rate $\geq 80\text{dB}$
Receiver Power Supply: DC 12V/300mA
Transmitter Power Supply: 9V Battery
Transmit Power: + 1.0dBm
Carrier Frequency Band: VHF-H: 174.2MHz–215.8MHz
Output Type: Separate and Mixed Output (auto-selecting)

Delivery Includes:

Receiver	1 pc
Handheld Microphone	2 pcs (VF-289)
Audio Output Cable	1 pc
Power Adaptor	1 pc
User's Manual	1 pc
Belt-Pack Transmitter	2 pcs (TS-6310A)
Tie-clip Microphone	2 pcs (TS-6310A)
Headworn Microphone	1 pc (TS-6310A)
9V batteries	2pcs



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